

CLAIMS

I claim:

1. Instrumentation for extracting prosthetic elements having a root post or for extracting implants, made of an instrument comprising two levers (1A, 1B) connected to each other, in a rotating and non-crossing manner, by means of an articulation (2), each of these levers thus comprising one handle (3A, 3B) and one extracting arm (4A, 4B) extending on either side of the articulation (2), so that bringing together the two handles (3A, 3B) causes the two extracting arms (4A, 4B) to separate, characterized in that the ends (4A, 4B) of the extracting arms (4A, 4B) of this instrument are curved so as to form an angle with the remaining part of these extracting arms, and in that they comprise extracting tips (5A, 5B) in the form of clamps designed to be able to be positioned in a detachable way and with a rotational capacity, at the curved ends (4A', 4B') of the extracting arms (4A, 4B).
2. Instrumentation according to claim 1, characterized in that it comprises several pairs of extracting clamps (5) having different thicknesses and having notches (5b) corresponding to different diameters of prosthetic element posts (T).
3. Instrumentation according to claim 1, characterized in that the instrument comprises mechanisms (8,9) for subjecting the extracting arms (4A, 4B) to the action of progressive separating forces.
4. Instrumentation according to one of the claims 1 or 2, characterized in that the instrument comprises a mechanism for the automatic return of the extracting arms into a position close together.

5. Instrumentation according to claim 1, characterized in that it consists of at least one gauge (11) comprised of a flat bracket comprising a grasping part or sleeve (11B) and a working part whose end is formed by a calibrating fork (11 a), the thickness of this calibrating fork corresponding to the thickness of the pair of clamps (5A, 5B) of the extracting arms (4A, 4B) when they are in a position close together; preferably, this instrumentation comprises several gauges (11) having calibrating forks (11a) corresponding to different diameters of the prosthetic element posts (T) and having different sizes of extracting clamps (5).

6. Instrumentation according to one of the claims 1 or 2, characterized in that the clamps (5) have a planar support surface (5a) oriented to the outside and defining a notch (5b).

7. Instrumentation according to claim 6, characterized in that the notch (5b') of the extracting clamps (5') has a decreasing width in the direction to the bottom of the notch, this notch being able to have the shape of a V or a spacing that decreases gradually.

8. Instrumentation according to one of the claims 1, 2, 6 or 7, characterized in that the extracting clamps (5A, 5B) comprise a shaft or cylindrical rod (6) and in that the bent ends (4A', 4B') of the extracting arms (4A, 4B) are equipped with a traversing bore (7) that permits the detachable and rotatable mounting of the clamps in the extension of the ends.

9. Instrumentation according to claim 3, characterized in that the mechanisms for subjecting the extracting arms (4A, 4B) to the progressive removal forces are comprised of a flexible and compressible stop (8) affixed to one (3A) of the handles, relative to the internal surface of the other handle (3B), in a manner such that when the handles are brought together, this elastic stop is compressed between them.

10. Instrumentation according to claim 9, characterized in that it comprises a mechanism (9) for regulating the support of the elastic stop (8).

11. Instrumentation according to claim 4, characterized in that the mechanism for automatic return of the extracting arms (4A, 4B) to a close together position is comprised of a leaf spring (10) interposed between the handles (3A, 3B) of the instrument and tending to separate them.